



KPR Institute of Engineering and Technology

Arasur, Coimbatore - 641407
www.kpriet.ac.in T: 0422-2635600

Highlights of this month

February 19

Technical Quiz: Project Hospital

February 10

Cancer Awareness Program

January 25

Project Ideas to Business Model

"We are Engineers for Doctors"

Biomedical Engineering is one of the premier Engineering disciplines among technocrats since it merges Healthcare Technology with Electronics and Software technologies including Artificial Intelligence, Machine Learning, Robotics in Medicine, Bioinformatics, Prosthetic Engineering etc. to serve better to the human community with advance and continuously upgrading technologies. In KPRIET, we nourish our students with advance laboratories like Bio-signal processing, Diagnostics and Therapeutic Equipment, Human Anatomy and Physiology, Biomedical Instrumentation to learn by practicing. Hospital training and internship are arranged with leading multispecialty hospitals and biomedical industries to facilitate the students for better career. Research activities are vibrant with publications and patents in the recent trends.

Dr. D. Ganeshkumar HoD/BME

BIO-SCOPE

Monthly Newsletter: Department of Biomedical Engineering

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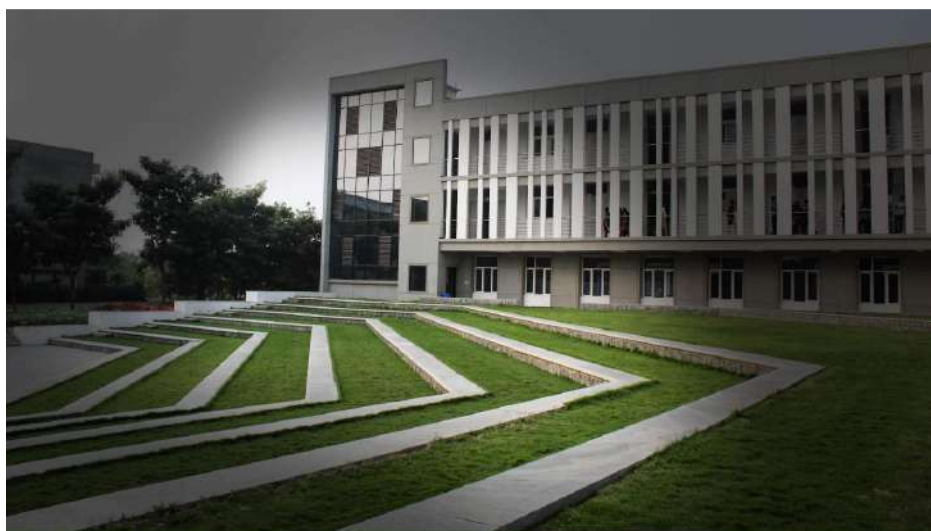
Dr. D. Ganeshkumar, HoD, KPRIET

FACULTY COORDINATOR

Ms. S. Saranya Devi, AP/BME

IN THIS ISSUE

About the Institution & Department
Programs Organized
Faculty Publication
Placement Activities



About KPRIET

KPR Institute of Engineering and Technology (KPRIET), founded by Dr. K. P. Ramasamy, stands out as a leading institute of academic excellence by imparting technical, intellectual and professional skills to students. The institute, with its diverse and energetic community of students offers a distinguishing blend of some of the premium graduate, undergraduate and research programs, talented faculty, world class amenities and a residential campus set on a sprawling 150 acres of lush green campus.

While students at KPRIET immerse themselves in academics, the institute has a lot in store for them outside the classroom. Student life includes participation in sports, co-curricular activities and cultural. In short, at KPRIET, students will find an academic and social environment where everyone- from faculty members to peer's support shape their future.

KPRIET is a home to artistically designed buildings with state of the-art computer and internet facilities, modern workshops, seminar halls, auditoriums and well stocked libraries, sports and games fields in addition to an indoor badminton court and gymnasium.

KPRIET has a faculty strength of 227 with a faculty student ratio of 1:15. Out of the total, 97 faculty members PhDs. and 102 are in the process of completing their PhDs. As an exemplary institution of learning, KPRIET follows an admission policy that strongly favours merit, even as it enables access to education for students from all strata of society through appropriate scholarships. The Institution boasts of a strong alumni network with alumni events held every year serving as a platform for past students to give back to KPRIET and share their experiences with its present fellow students.

About the Department

The Department of Biomedical Engineering of KPR Institute of Engineering and Technology, Coimbatore was established in the year 2017 with an annual intake of 60 students. The Department has highly qualified faculty members with Ph. D. and M. E. / M. Tech. under various specialize such as Biomedical Signal and Image Processing, Medical Electronics, Healthcare Data Analytics, Biomaterials, Regenerative medicine and Nanoscience.

The faculty members contribute to academic development by publishing books / journals, products, patent filing and presenting papers in International and National Conferences. The Department of Biomedical Engineering signed MoUs with the reputed industries like Aravind Eye Care Hospital, Helix Private Ltd., GEM Hospitals, Ganga Medical Center and Hospital, Masonic Medical Centre for children, Waxwing Medical Technologies, Vital Bio-systems to bridge the gap between theory and field practices.

The Department also provides an opportunity for students in improving practical knowledge in the field of Biomedical Engineering and Software skills like MATLAB, LabVIEW, Proteus, Pspice simulation

through KPI Centre of Excellence, in addition to Communication and Presentation skills. The students have to undergo Industrial Training and Industrial Visit to facilitate them to take up industrial live projects to understand the industry needs. The Department of Biomedical Engineering as well as faculty members has lifetime membership in various Professional Societies like ISTE, BMESI and IBSC. The Department of Civil Engineering has various Students Chapter like ISTE and BMESI to gain knowledge through various programmes conducted by these bodies across the Nation.

Vision of the Department

Be at the forefront in providing multidisciplinary education in engineering, technology and biological sciences, thereby providing our students, the future engineering professionals with the skills required to develop avant-garde devices and technologies to assist medical professionals in providing exceptional healthcare.

Mission of the Department

The Mission of the Department is to

- Establish new teaching paradigms to converge biomedical engineering education to unveil creativity and innovation in clinical health care.
- Build an integrated team of biomedical engineering community to nurture cutting-edge technologies through research and development.
- Collaborate and promote partnership with healthcare industry to enrich employability skills and be in phase with their progress.
- Impart moral values, inculcate ethical behaviour and practice life-learning.

Programs Organized

Event: 1



Learn Beyond

**KPR Institute of
Engineering and
Technology**

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600

Web: kpriet.ac.in

Social: kpriet.ac.in/social

NBA Accredited

(CSE, ECE, EEE,

MECH, CIVIL)

ID	51			
Event No.	2			
Organizer	My parent department			
Date	10/2/2022- 10/2/2022			
No. of Days	1 Day			
Mode	Offline			
Venue	RAGAM HALL			
Type of Event	Webinar			
Level of the Event	College Level (KPRIET Common)			
Title of the Event	CANCER AWARENESS PROGRAMME			
Actual Total Expense	₹0			
Associate Dept.	BME			
Cell Committee	KMC			
Associate Cell Committee	KMC			
Club Society	BMESI (BioMedical)			
Associate Club Society	BMESI (BioMedical)			
Sponsored?	No			
Sponsored Agency	--			
Sponsored Fund	--			
College Sponsored?	No			
College Fund	--			
No. of Internal Participants	Faculty	131	Students	78
No. of External Participants	Faculty	--	Students	--
No. of Industry Participants	--			
Involved Staffs				
1	Sreelatha P		CONVENOR	
2	Bharath V		COORDINATOR	
Resource Persons				
1	SRIDHAR		GEM HOSPITAL, COIMBATORE	
Outcome	-			
Report	Experts from GEM Hospital and Dr.A.M.Natarajan, Chief Executive/KPRIET exchanged MoU signing Documents. The event "Cancer Awareness Program" held on 10/02/2022 around 2.40 PM at Ragam hall. Dr. P.Thangaraj Director/CFRD given felicitation address, followed by Dr.P.Sreelatha, Convenor of this program inaugurated the program. Dr.Senthilkumar Ganapathi, Consultant, GI Surgeon elucidated about the various types of cancer. Dr. Sai Darshini junior consultant, Department of Endogynecology explained about the cervical cancer and abdomen cancer. Mr.Shanmugaraj, Manager- Patients Health Manager overviewed about GEM hospitals. Faculty Coordinator Mr.Bharath V, Asst.Prof./BME given			



Poster



Photo | Screenshot (1)



Photo | Screenshot (2)

Event: 2



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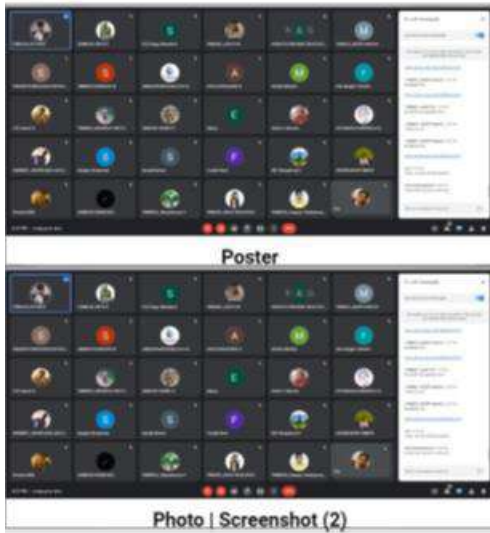
Social: kpriet.ac.in/social

NBA Accredited

(CSE, ECE, EEE,

MECH, CIVIL)

ID	80			
Event No.	4			
Organizer	My parent department			
Date	19/2/2022- 19/2/2022			
No. of Days	1 Day			
Mode	Online			
Link	https://meet.google.com/mdq-prtz-nhu			
Type of Event	Quiz			
Level of the Event	College Level (KPRIET Common)			
Title of the Event	Project Hospital			
Actual Total Expense	₹0			
Associate Dept.	BME			
Cell Committee	Professional Societies / Clubs			
Associate Cell Committee				
Club Society	BMESI (BioMedical)			
Associate Club Society	--			
Sponsored?	No			
Sponsored Agency	--			
Sponsored Fund	--			
College Sponsored?	No			
College Fund	--			
No. of Internal Participants	Faculty	--	Students	83
No. of External Participants	Faculty	--	Students	52
No. of Industry Participants	--			
Involved Staffs				
1	Swathy M	BMESI and Department Association Incharge		
Outcome	Awareness about the NABH standards			
Report	The event was conducted to create awareness about the NABH standards that has to be followed in the operations of the hospital. The students were provided with an online quiz which consisted of 20 Multiple choice questions. They were requested to attend the quiz online and the results were compiled in real time. The first 3 top scorers were selected and rewarded.			





Avinashi Road, Arasur, Coimbatore - 641 407



Event No.	:	3												
Date	:	25.01.2022												
Venue	:	KPRIET												
Level of the Event	:	State												
Type of Event	:	Webinar												
Title of the Event	:	Career Guidance Programme												
In Association with	:	District Employment and career Guidance Centre, Coimbatore.												
Resource Persons	:	<ol style="list-style-type: none"> 1. Ms. J. Aneesha Suraiya, Assistant Engineer, PWD, Coimbatore. 2. Dr. Umesh Vasu, Foundar and CEO, Tharam-Thiran Green Energy Flow LLP 3. Ms. Nithya Vellingiri, Carrenet Technologies, Coimabatore. 4. Mr. Karunakaran, Deputy Director, DECGC, Coimbatore, 5. Ms. Sathya Parthvarthy, DEO, Coimbatore. 												
Convener	:	Dr. Sreelatha P, AsP / BME												
No. of External Participant (Count)	:	<table border="0"> <tr> <td>Faculty</td> <td>:</td> <td>-</td> </tr> <tr> <td>Research Scholars</td> <td>:</td> <td>-</td> </tr> <tr> <td>Students</td> <td>:</td> <td>-</td> </tr> <tr> <td>Others</td> <td>:</td> <td>-</td> </tr> </table>	Faculty	:	-	Research Scholars	:	-	Students	:	-	Others	:	-
Faculty	:	-												
Research Scholars	:	-												
Students	:	-												
Others	:	-												
No. of Internal Participant (Count)	:	<table border="0"> <tr> <td>Faculty</td> <td>:</td> <td>50</td> </tr> <tr> <td>Research Scholars</td> <td>:</td> <td>-</td> </tr> <tr> <td>Students</td> <td>:</td> <td>350</td> </tr> </table>	Faculty	:	50	Research Scholars	:	-	Students	:	350			
Faculty	:	50												
Research Scholars	:	-												
Students	:	350												
Outcome	:													

Equal opportunity cell organized a “Career Guidance Programme” on 25.01.2022 (Tuesday) to create awareness among the students about career opportunities in various government and private sectors including IES, UPSC, IBPS, and BHEL etc. The session was addressed by the experts from District employment and Career guidance centre, Coimbatore, Careernet Technologies and Tharam-Thiran Green Energy Flow LLP. Mr. DS. Gunasekaran, Regional Joint Director, delivered inaugural address. Ms. J. Aneesha Suraiya, Assistant Engineer highlighted the different competitive exams regularly conducting by Government. She has narrated the steps to be followed and the application procedures involved in the Technical Government exams. In addition to that, she has shared her experience to the participants and insisted them to be ready for competitive exams. The guest speaker Dr. Umesh Vasu also gave insights to the participants to become good entrepreneur. He expressed his ideas and his own experience about how to get funds for start-ups and how to present proof-of-concept to approach funding agency.

Equal Opportunity Cell
in association with
District Employment and Career Guidance Centre (DECCG), Coimbatore
Organizes
Career Guidance Programme
on 25th January, 2022 (2.30 pm to 4.30 pm)

Guest Speakers

<p>INAUGURATION SPEECH Mr. OS. Gnanasekaran Regional Joint Director, Coimbatore Region</p>	<p>GOVERNMENT EXAMS Ms. J. Aneesha Suraiya Assistant Engineer, PKD, Electrical Subdivision, Coimbatore</p>	<p>ENTREPRENEURSHIP FOR ENGINEERS Dr. Umesh Vasu Founder and CEO, Tharam-Thiran Green Energy Flow LLP</p>
<p>INTERVIEW SKILLS Ms. Nithya Vellingiri Associate consultant (HR), Careernet technologies, Coimbatore</p>	<p>GENERAL OVERVIEW Mr. Karunakaran Deputy Director, DECCG, Coimbatore</p>	<p>GENERAL OVERVIEW Ms. Sathya Parvathy District employment officer, DECCG, Coimbatore</p>

Convenor : Dr. P. Sreelatha, AsP / BME, Head - EOC
Program Coordinators : Dr. D. Aravindh, AP (SLG) / Mathematics
Dr. K. Kalirajan, Associate Professor / ECE

zoom
shorturlat/cBL45

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

SUSTAINABLE DEVELOPMENT GOALS

KPRIET

Ms. Nithay Vellingiri elaborated the interview skills and tips to the participants to face an interview with full of confidence and asked them to be focused to plan their career accordingly. In addition to that, she suggested the students to do self-analysis to find out their strengths and weakness. Mr. Karunakaran said that there are plenty of opportunities in government sectors and represented the

activities done by the District Employment centre. Ms. Sathyaparvarthy explained about opportunities in state and central government sectors and ends the session by Q&A interaction with the participants. About 400 faculty and student across the departments attended the session. The team Equal Opportunity Cell organized this event.



“Presentation by Resource Person”



“Organizing team during the sessions”

Faculty Publication

Name	Name of the National Conference / Seminar / Symposium	Title	Organized & Conducted at (Venue)	Date(s) and Year
Mr. John Amose	2nd International Conference on Computing & Information Technology (ICCIT)	“Comparative Performance Analysis of Kernel Functions in Support Vector Machines in the Diagnosis of Pneumonia using Lung Sounds”	Faculty of Computers and Information Technology (FCIT), University of Tabuk, Tabuk, KSA,	25th – 27th, January 2022

Placement Activities

S.No.	Name of the Company	Total placement Interested	Number of students attended	Number of students cleared	% Of students cleared
1	Healthwatch	34	11	10	90.91
2	Capgemini	34	2	1	50